

ACADEMY OF SCIENCES
OF THE REPUBLIC OF UZBEKISTAN



**S.Yu. Yunusov Institute of the
Chemistry of Plant Substances**

Journal of Chemistry of Natural Compounds

Society of Chemists of Uzbekistan

**"ACTUAL PROBLEMS OF THE CHEMISTRY OF
NATURAL COMPOUNDS»**

SCIENTIFIC CONFERENCE OF YOUNG SCIENTISTS

Dedicated to the memory
of Academician Sabir Yunusovich Yunusov

March 17, 2022

TASHKENT



**ACADEMICIAN
SABIR YUNUSOVICH YUNUSOV
(1909-1995)**

Topics OF CONFERENCE

1. Chemistry, technology and pharmacology of natural compounds.
2. Biotechnology and organic chemistry.

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Acad. S.Yu.Yunusov Institute of the Chemistry of Plant Substances,
77, Mirzo-Ulugbek Str., Tashkent, 100170, Uzbekistan

17 March

8.00–9.00 **Registration of the participants of the Conference**

(Acad. S.Yu. Yunusov Institute of the Chemistry of Plant Substances,
Tashkent, M. Ulugbek st., 77)

9.00–9.10 **OPENING CEREMONY**

**Welcome speech of director of the Institute of the Chemistry of
Plant Substances**
Prof. Sh. Sh. Sagdullaev

9.10–10:00 **MEMORIES OF THE LIFE AND SCIENTIFIC ACTIVITY**

OF ACADEMICIAN S.YU. YUNUSOV

Doc. S.Z. Nishanbaev

ORAL PRESENTATIONS

Chairmen: Prof. Batirov E.Kh.

Secretary: Turaeva S.M.

10.00–10.15 **B.S. Okhundedaev** Flavonoids of plants of the genus *Artemisia*.
Flavones and sesquiterpene lactone from *Artemisia juncea*.

10.15–10.30 **A.U. Ubaydullaev.** Electrophilic exchange reactions of the
quinoline alkaloid haplophyhilidine

10.30–10.45 **U.B. Khamidova.** 5-amino-1,3,4-thiadiazolthion derivatives as
potential anti-cancer agents

10.45–11.00 **N.K.Usmanova.** Chemical components of the medical plant
Melilotus officinalis

11.00–11.15 **L. Kozinskaya.** Mechanism of the formation of indolcrown ethers
by the bartoli-grignard reaction

11.15–11.30 **D.Z. Azizov.** Structure and biological activity of
arabinogalactans of *Ferula kuhistamica* and *Ferula tenuisecta*

11.30–11.45 **A.U. Berdiev.** Synthesis of 4-substituted-5,6-polymethylenethieno
[2,3- d]pyrimidines

12.00–12.15 **Z.F.Nuriddinov.** Study of Separation Conditions and Biological
Evaluation of Natural Compounds from *Echis carinatus* Snake
Venom

12.15–12.30 **Sh.Sh. Khusenova.** Determination of the quantity of the total
flavonoids in dry diabderm extract.

12.30-12.45 **Q.G. Khajibayev.** The study of the amount of organic elements in
the cyst of *Artemia* of the Aral Sea

12.45-13.00 **M.E. Ziyadullaev.** N-(4-oxo-3,4-dihydroquinazolin-6-yl) acetamide
synthesis and biological activity

13.00–14.00 **Break and POSTER PRESENTATIONS**

DRY EXTRACT TECHNOLOGY OF PUMPKIN SEEDS CONSISTING IN THE ANTIHELMINTIC COMPOSITION

Sh.Kh. Yuldasheva, Kh.R. Tuxtaev

Tashkent Pharmaceutical Institute

shaxlo.dr@gmail.com

At present, it is of particular interest to create and study medicines from plants that have been used in hemp to treat parasitic diseases and restore the functioning of the gastrointestinal tract. Among the antihelmintic drugs, the main place is occupied by medicinal preparations from plant raw materials. This is because they have a safe and effective effect on the body. Our Republic is rich in stocks of plant raw materials, which have an antihelmintic effect. Of these, pumpkin seeds are used as a remedy for vomiting in folk medicine and medicine from the very beginning.

Simple pumpkin -*Cucurbita pepo* L. belongs to the family of Cucurbitaceae. As a raw material, pumpkin seeds and a piece of meat are used. Pumpkin seeds contain up to 50% of fats, phytosterols (cucurbitol); cucurbin (around 18% of the amino acid content); low molecular weight pods; organic acids, vitamins, α -, β -, γ -, δ -tocopherols. Drugs made from pumpkin of various forms (extract, oil, tikveol, capsule), released in pharmaceutical production, are used in constipation, parasitic diseases (especially in case of teniarinchosis), when urine is difficult to separate.

The purpose of the work: to study the technology of obtaining dry extract from pumpkin seeds, which is an antihelmintic composition.

Part of the experiment: first of all, pumpkin seeds were separated from the fleshy part of the stomach. Then it was dried at room temperature. Dry raw materials grind in the form of powder. First of all, crushed pumpkin seeds are extracted 1 time with chloroform by the method of percolation (24 hours). In the bun, pumpkin oil is distinguished. Then the rest was dried at room temperature. The dried part is extracted 3 times in 70% ethyl alcohol. Then the extracts are combined. The combined extracts were put in a rotor vaporizer and the alcohol contained was expelled. The resulting thick extract was dried in a drying oven and a dry extract was obtained.

Conclusion. The technology of obtaining dry extracts from pumpkin seeds has been studied. In this research work, chloroform was used as an extract in obtaining pumpkin oil. In obtaining a dry extract from the defrosted part, 70% ethyl alcohol was obtained as an extract. In relation to the mass of raw materials, the yield of the product was 1,35%.

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Тошкент ш., Мирзо Улугбек күчаси, 77 уй.

Tashkent, M. Ulugbek district, M. Ulugbek street, 77
Tel.: (+99871) 262-59-13